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Complete if Known

Application Number	PCT/EP2003/014537
Filing Date	December 18, 2003
First Named Inventor	Louise Diane FARRAND et al.
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	MERCK-3050

(use as many sheets as necessary)

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete If Known	
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NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. †	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ‡
SW	9	YUICHIRO HARAMOTO ET AL: "NEW PYRIDINIUM TYPE IONIC LIQUID CRYSTAL COMPOUNDS WITH A 1,3-DIOXANE RING IN THE PRINCIPAL STRUCTURE" LIQUID CRYSTALS, TAYLOR AND FRANCIS LTD, LONDON, GB, VOL. 21, NO. 6, 1 DECEMBER 1996, PAGES 923-925, XP000639781.	
	10	CUI L ET AL: "SYNTHESIS AND THERMAL BEHAVIOUR OF LIQUID CRYSTALLINE PRYIDINIUM BROMIDES CONTAINING A BIPHENYL CORE" LIQUID CRYSTALS, TAYLOR AND FRANCIS LTD, LONDON, GB, VOL. 29, NO. 9, SEPTEMBER 2002 PAGES 1121-1132, XP001116892.	
	11	DATABASE INSPEC "ONLINE" INSTITUTE OF ELECTRICAL ENGINEERS, STEVENAGE, GB; HARAMOTO Y ET AL: "LIQUID CRYSTAL PROPERTIES OF NEW IONIC LIQUID CRYSTAL COMPOUNDS HAVING A 1,3-DIOXANE RING" DATABASE ACCESSION NO. 7266074 XP002277948 ABSTRACT & LIQUID CRYSTALS, JAN. 2002, TAYLOR & FRANCIS, UK, VOL. 29, NO. 1, PAGES 87-90.	
	12	DATABASE INSPEC "ONLINE" INSTITUTE OF ELECTRICAL ENGINEERS STEVENAGE, GB; KIJIMA M ET AL: "SYNTHESIS OF NOVEL IONIC LIQUID CRYSTALLINE PYRROLE DERIVATIVES HAVING A VIOLOGEN MOIETY" DATABASE ACCESSION NO. 7123102 XP002277949 ABSTRACT & 18 TH INTERNATIONAL LIQUID CRYSTAL CONFERENCE, SENDAI, JAPAN, 24-28 JULY 2000, VOL. 364, PAGES 911-918, MOLECULAR CRYSTALS AND LIQUID CRYSTALS, 2001, GORDON & BREACH, SWITZERLAND	
	13	UJIE S ET AL: "THERMAL AND LIQUID CRYSTALLINE PROPERTIES OF LIQUID CRYSTALLINE POLYMETHACRYLATES WITH AMMONIUM UNITS AND THEIR NON-IONIC FAMILY" POLYMERS FOR ADVANCED TECHNOLOGIES, JOHN WILEY AND SONS, CHICHESTER, GB, VOL. 11, NO. 8-12, AUGUST 2000 PAGES 450-455, XP000977317.	
	14	DATABSE INSPEC "ONLINE" INSTITUTE OF ELECTRICAL ENGINEERS, STEVEANAGE, GB; HARAMOTO Y ET AL: "NEW 1,3-DIOXANE TYPE IONIC LIQUID CRYSTAL COMPOUNDS HAVING A DIFFERENT COUNTER ANION" DATABASE ACCESSION NO. 6779505 XPOO2277950 ABSTRACT & MOLECULAR CRYSTALS AND LIQUID CRYSTALS, 2000, GORDON & BREACH, SWITZERLAND VOL. 348, PAGES 129-136.	
	15	VEBER M ET AL: "IONIC LIQUID CRYSTALS: SYNTHESIS AND MESOMORPHIC PROPERTIES OF DIMERIC 2,4,6-TRIARYLPYRLIUM TETRAFLUOROBORATES" LIQUID CRYSTALS, TAYLOR AND FRANCIS LTD, LONDON, GB, VOL. 27, NO. 5 MAY 2000, PAGES 671-676, XP000932282.	
SW	16	HARAMOTO Y ET AL: "NEW IONIC LIQUID CRYSTAL COMPOUNDS HAVING A 1, 3-DITHIANE OR 1, 3-DIOXANE RING" LIQUID CRYSTALS, TAYLOR AND FRANCIS LTD, LONDON, GB, VOL. 26, NO. 10, OCTOBER 1999 PAGES 1425-1428, XP000887948.	

/Shean Wu/

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SW	17	HARAMOTO Y ET AL: "NEW 1,3-DITHIANE TYPE IONIC LIQUID CRYSTAL COMPOUNDS" LIQUID CRYSTALS, TAYLOR AND FRANCIS LTD, LONDON, GB, VOL. 24, NO. 6, 1 JUNE 1998 PAGES 877-880, XP000773009.	
	18	ARTZNER F ET AL: "EVIDENCE OF NEMATIC, HEXAGONAL AND RECTANGULAR COMUMNAR PHASES IN THERMOTROPIC IONIC LIQUID CRYSTALS" LIQUID CRYSTALS, TAYLOR AND FRANCIS LTD, LONDON, GB, VOL. 23, NO. 1, 1 JULY 1997 PAGES 27-33, XP000701478	
	19	HARAMOT Y ET AL: " NEW IONIC LIQUID CRYSTAL COMPOUNDS WITH VIOLOGEN GROUP IN THE PRINCIPAL STRUCTURE" LIQUID CRYSTALS, TAYLOR AND FRANCIS LTD, LONDON, GB, VOL. 19, NO. 3, 1 SEPTEMBER 1995, PAGES 319-320, XP000536247.	
	20	DATABASE INSPEC "ONLINE" INSTITUTE OF ELECTRICAL ENGINEERS, STEVENAGE, GB: HARISTOY D ET AL: "NOVEL IONIC LIQUID-CRYSTALLINE COMPOUNDS BEARING OXADIAZOLE AND PYRIDINIUM MOIETIES AS PROSPECTIVE MATERIALS FOR OPTOELECTRONIC APPLICATIONS" DATABASE ACCESSION NO. 7702539 XP002277947 ABSTRACT & CHEMISTRY OF MATERIALS, 20 MAY 2003, AMERICAN CHEM SOC, USA, VOL. 15, NO. 10, PAGES 2079-2083.	
	21	PATENT ABSTRACTS OF JAPAN VOL. 1998, NO. 06, 30 APRIL 1998 - & JP 10 053585 A (NIPPON CHEM IND CO LTD; HARAMOTO YUIOHIRO), 24 FEBRUARY 1998.	
SW	22	PATENT ABSTRACTS OF JAPAN VOL. 1996, NO. 10, 31 OCTOBER 1996 -& JP 08 157456 A (DAINIPPON PRINTING CO LTD), 18 JUNE 1996 ABSTRACT.	

Examiner Signature	/Shean Wu/	Date Considered	08/30/2006
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¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

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